

Prospecting by the Use of Radio Waves
Transmitted from Boreholes to the Sur-
face of the Ground in One of the Ore
Deposits Beyond the Arctic Circle, by
A. D. Petrovskiy.
RUSSIAN, per, Prikladnaya Geofizika,
No 29, 1961, pp 187-201.
NTC 69-10944-081

Sci-Ear Sci
May 69

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TT-64-10977

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METHODS FOR CALCULATING THE FREQUENCY-
SOUNDING WAVE CURVES. [1964] 9p 4refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10977

- I. Van'yan, L. L.
- II. Terekhin, E. I.
- III. Shtimmer, A. I.

Trans. of Prikladnaya Geofizika (USSR) 1961, no. 30,
p. 92-102.

(Earth Sciences--Geodesy, TT, v. 12, no. 1)

Office of Technical Services

Van'yan, L. L., Kaufman, A. A., and Terekhin, E. I.
CALCULATING THE FREQUENCY-SOUNDING PHASE
CURVES BY THE TRANSFORMATION METHOD.

[1964] 9p 5refs

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Trans. of Prikladnaya Geofizika (USSR) 1961, no. 30,
p. 103-114.

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- I. Van'yan, L. L.
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Salikhov, A. G.
RAPID METHOD OF CALCULATING THE DEPTH OF
OCCURENCE OF RECTANGULAR-PRISM-SHAPED
BODIES DISTURBING THE GRAVITATIONAL FIELD.
[1963] 13p.
Order from ATS \$14.25

ATS-83Q69R

Trans. of Prikl[adnaya] Geofiz[ika] (USSR) 1961, no. 31,
p. 230-247.

DESCRIPTORS: *Gravity anomalies, Prismatic bodies,
Mathematical analysis.

(Earth Sciences--Geodesy, TT, v. 10, no. 6)

63-17762

I. Salikhov, A. G.
II. ATS-83Q69R
III. Associated Technical
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East Orange, N. J.

Office of Technical Services

Applied Geophysics USSR, edited by Nicholas Rast,
429 pp.

RUSSIAN, bk, Prikladnaya Geofizika, 1962.

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Sep 62

CIA Lib No TT

269

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Polyakov, E. A.
THE THEORY OF TRANSMISSION WITHOUT WIRES
OF ELECTRICAL SIGNALS FROM THE BOTTOM OF
THE HOLE TO THE SURFACE DURING DRILLING.
[1963] 11p.

Order from ATS \$16.25

ATS-51Q68R

Trans. of Prikl[adnaya] Geofiz[ika] (USSR) 1962, no. 32,
p. 142-154.

DESCRIPTORS *Well drilling, Surfaces, Boreholes,
*Communication systems, Electrical equipment, Sig-
nals, Transmission, Theory, *Well logging,

(Engineering, TT, v. 10, no. 6)

63-17334

- I. Title: Boring
- I. Polyakov, E. A.
- II. ATS-51Q68R
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

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Glumov, I. F. and Dobrynin, V. M.
VARIATION IN ELECTRICAL RESISTIVITY OF
WATER-SATURATED ROCKS UNDER THE INFLU-
ENCE OF ROCK AND FORMATION PRESSURE.
[1963] 15p.

Order from ATS \$10.75

ATS-64Q71R

Trans. of Prikl[adnaya] Geofiz[ika] (USSR) 1962, no. 33,
p. 190-204.

DESCRIPTORS: *Rock (Geology), *Resistance (Electri-
cal), Water, Impregnation, Pressure, *Geophysics.

(Earth Sciences--Geology, TT, v. 11, no. 1)

TT-63-22351

- I. Glumov, I. F.
- II. Dobrynin, V. M.
- III. ATS-64Q71R
- IV. Associated Technical
Services, Inc.,
Ft. Orange, N. J.

Office of Technical Services

Orlov, L. I. and Gimaev, R. S.
EFFECT OF OVERBURDEN PRESSURE ON THE
ELECTRICAL RESISTIVITY OF CARBONATE ROCKS.
[1963] 5p

Order from ATS \$6.75

ATS-65Q71R

Trans. of Prikl[adnaya] Geofiz[ika] (USSR) 1962,
no. 33, p. 206-212

DESCRIPTORS: *Carbonate minerals, *Rock (Geology),
Loading (Mechanics), Electrical properties,
*Resistance (Electrical), Weight, Pressure,
*Geophysics.

(Earth Sciences--Geology, TT, v. 10, no. 10)

63-22581

I. Orlov, L. I.
II. Gimaev, R. S.
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Services, Inc.,
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Kal'varaskaya, V. P. and Lonskii, A. V.
AN APPARATUS FOR LOGGING MAGNETIC
SUSCEPTIBILITY. [Jan 64] 11p

Order from ATS \$10.85

ATS-64Q73R

Trans. of Prikl[adnaya] Geofiz[ika] (USSR) 1962, no. 33,
p. 213-224.

DESCRIPTORS: *Well logging, Magnetic properties,
Geophysical prospecting.

(Earth Sciences--Geology, TT, v. 11, no. 10)

TT-64-12404

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- II. Lonskii, A. V.
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- IV. Associated Technical
Services, Inc., East
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pp 3-22.
OTS-TT-63-27103

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Nemtsov, L. D.
THE PROSPECTS OF HIGH-PRECISION GRAVITY
PROSPECTING IN THE SEARCH FOR OIL. [1963] 11p
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Trans. of Prikl[adnaya] Geofiz[ika] (USSR) 1962, no. 35,
p. 142-156.

DESCRIPTORS: Oils, *Geophysical prospecting,
Gravity, Precision equipment.

(Earth Sciences--Geology, TT, v. 11, no. 3)

TT-63-22927

- I. Nemtsov, L. D.
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Evaluation of Accuracy of Gravimetric Maps, by
M. V. Abdulov. *253 pp*
RUSSIAN, per, Prikl Geofizika, No 36, 1963.
ACIC
TC-833

Sci - Earth Sci & Astron
Dec 64

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Influence of Vertical Accelerations on Gravimeter
Readings, by V. O. Bargamyants. *253 pp*
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Sci - Earth Sci & Astron
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Variation of Gravimeter Readings Under the Effect
of Vertical Oscillations of Its Base, by P. I. Lukavchenko.
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A Statistical Estimate of the Accuracy of
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Gravitational Acceleration for a Finite
Period of Time, by Ya.A. Tarakanov.
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A. Ye. Kulinkovich

Delineation of Stratal Boundaries and Identification
of Sandstones by Means of Digital Computers
According to Electric Logging Data.

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pp 107-123.

WTC 72-14056-000

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Measurement of Elements of the Gravitational
Field While in Motion, by K. Ye. Vesslov, 10
pp.
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JPRS 30334.

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Ginzburg, I. P.
APPLIED FLUID DYNAMICS, tr. by Albert Barouch.
1963, 258p. 69 refs. PL-480 NASA; NASA TT-F-94.
Order from OTS \$2.75 62-11032

Trans. of mono. Priladnaya Gidrogazodinamika,
Leningrad, 1958 [337p.].

DESCRIPTORS: *Fluid mechanics, *Hydrodynamics,
*Hydraulic research, Equations of motion, Fluid flow,
Pipes, Stability, Turbulence, Gas flow, Friction,
Continuum mechanics.

This book discusses some of the problems of fluid
mechanics which are frequently met with in the
engineering design of various machine assemblies and
engineering installations. The author examines the
steady and unsteady flow of liquids and gases in pipes,
their efflux from vessels, problems of the determina-
(Mechanics--Hydraulics, TT, v. 9, no. 12) (over)

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Applied Fluid Dynamics, by I. P. Ginzburg, 258 pp.

RUSSIAN, bk, Prikladnaya Gidrogazodinamika,
1958.

NASA TT-F-94
PL-480

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131 pp.

REF ID: A62
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The Application of Galerkin's Method to the
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Viscous Liquid, by G. I. Petrov.
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Vol 4, No 8, 1940, pp 3-11.
NLL RTS 3160

Sci - Mech
Sept. 67

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On the mechanics of plastic solids by Applied Mathematics and Graduate Division, Brown University
U.S. Navy Dept David M. Taylor Model Basin
Providence, R.I. RMB-15 1947 3p

Trans. From Prikladnaya Matematika i Mekhanika 4, 37-42 (1940)

REF 52,703

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Development and Present State of the Theory of
Plasticity, by G. K. Genki, 11 pp.

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On the Mechanics of Plastic Media, by
L. N. Kachanov.

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1940, pp 37-42.

CIA X-6332

Sci-Mech
Aug 67

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The Pressure of a Plastic Solid on a Rigid Wedge,
by V. V. Sokolovskiy, 24 pp.

RUSSIAN, per, Prik Mat i Mekh, Vol IV, No 5-6, 1940,
pp 19-34.

Sci Trans Center RT-278

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Scientific - Physics
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**Steady Vibrations of Wing of Circular Plan Form
and Theory of Wing of Circular Plan Form, by
N. E. Kochin**

**RUSSIAN, per, Prikl. Mat. Mekh., Vol 6, pp 287-316,
Vol 4, pp 3-32, 1942; 1940.**

**NACA, Washington
Tr No 1324**

Scientific - Engineering
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On the Application of Hooke's Law to Rubber, by N. I. Glagolev, 9 pp.

RUSSIAN, per, Prik Mat i Mekh, Vol IV, No 5-6, 1940, pp 123-127.

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Scientific - Physics
CTS/DEX

10,899

Plene Strain in the Case of Linear Strain Hardening, by
A. Yu. Ishlinskiy, 24 pp.

RUSSIAN, no per, Prikl Mat i Mekh, Vol V, No 1, 1941,
pp 57-70.

Sci Tr Center RT-355

Scientific - Physics

10, 128

Pril Mat. Mekh

Vol 5, # 2

(1941)

*Influence of Kind of Lattice on Hydrodynamic
Characteristics*

N. E. Kochin

*in proceed. AMC
(Sovcom - Jan 51)*

197 - 76

Construction of Airfoils by the Hodograph Method,
42 pp. by L.A. Simonov

RUSSIAN, part, Prikl Matemat 1 Mel, Vol V, No 2,
1941, pp 193-222.

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RT-1465

Scientific - Mathematics

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Vol 5, # 3

(1941)

on Integral Methods in Theory of Boundary Layer
L. S. Lytzhovsky

In review - HRC
(See also - Jan 51)

On B. G. Galerkin's Method in the Calculus of Variations and the Theory of Elasticity, by I. A. Perel'man.
UNCLASSIFIED

RUSSIAN, per, Prik Matemat i Mekh, Vol V, No 3, 1941,

*Navy/APL

Sci - Physics
Feb 60

The Plastic-Elastic State of Solids, by L. M. Kachanov,
~~Excerpt~~ 13 pp.

RUSSIAN, no per, Prik Mat i Mekh, Vol V, No 3, 1941,
pp 431-438.

Sci Tr Center RT-282

Scientific - Physics

10, 130

Application of the Theory of Plasticity to the
Rolling of Metals, by K. N. Shevchenko, 20 pp.

RUSSIAN, no per, Prik Mat i Mech, Vol V, No 3,
1941, pp 439-452.

Sci Tr Center RT-348

Scientific - Physics

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On Integral Methods in the Theory of the Boundary
Layer, by L. G. Loytyanskiy.

RUSSIAN, per, Prik Mat Mekh, Vol 5, 1941,
pp 453-470.

BAEC 127-64

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Sci-Math
Jul 68

Three Dimensional Flow in Hydraulic Turbines,
by L. A. Simonov, 33 pp.

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No 3, 1941, pp 471 - 488.

AMC F-TS-7476

Scientific - Engineering

Doc: 1951 CTS

Application of Galerkin's Method to the Socalled
Procedure of Reduction to Ordinary Differential
Equations, by L. V. Kantorovich.
RUSSIAN, per, Prikl Mat Mekh, Vol 6, 1942,
pp 31-40.
AEC ANL-Trans-578

Sci-Math
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Theory of Stability of Thin Elastic Anisotropic Plates of Variable Rigidity, by
P. G. Shulezhko.
RUSSIAN, per, Prikladnaya Matematika i
Mekhanika, Vol 7, No 2-3, 1942, pp 139-150.
*NASA TT F-11,346

Sci-Mech
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Variational Principles for Elastic-Plastic
Solids, by L. M. Kachanov, 18 pp.

RUSSIAN, per, Prik Matemat I Mekh, Vol VI,
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Scientific - Physics

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On a Problem of Elastic-Plastic Torsion, by
V. V. Sokolovskiy, 11 pp.

RUSSIAN, per, Prikl Matemat i Mekhanika, Vol
VI, Nos 2, 3, 1942, pp 241-246.

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RT-1955

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Jan 55 CTS/DEX

On the Distribution of Stresses in a Rolled
Bar, by K. N. Shevchenko, 19 pp. UNCLASSIFIED

RUSSIAN, per, Prikl Matemat i Mekh, Vol VI,
No 5, 1942, pp 361-394.

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Scientific - Physics

Jan 55
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I. Malkin

Some basic theorems of the theory of stability of motion in critical cases, 50 pp

RUSSIAN per, Prikladnaya Matematika i Mekhanika, 1942 Vol 6, pp 411-448

High Speed Res 11 38

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1941 V5 P455-470	ANL-TRANS-579 <2>
1942 V6 P31-40	ANL-TRANS-578 <2>
1949 V13 P435-444	70-23363 <2>
1950 V14 P295-302	RT-1439 <2>
1957 V21 N2 P231-243	RE 11-21-5811 <NASA>

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Boundary Layer in Compressible ⁶Gas, by A. Dorodnitsyn,
65 pp.

Full translation.

RUSSIAN, no per, Prikl Matemat i Mekh, Vol VI, No 6,
1942, pp 449-486.

NACA N-12716

Sci - Chem

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Deflection of a Semi-infinite Plate Lying
On an Elastic Foundation, by G. S. Shapiro.

RUSSIAN, bimo per, Priklad Matemat i Mekh,
Vol VII, 1943.

OCE Tr 48

Scientific - Geophysics

CTS 65/Feb 55

21, #25

Chetaev, N. G.
ON SUFFICIENT CONDITIONS OF STABILITY OF
ROTARY MOTION OF A PROJECTILE. [1963] 28p
(formulae omitted) 2refs
Order from OTS, SLA or ETC \$2.60 TT-63-20579

Trans. of Prikladnaya Matematika i Mekhanika (USSR)
1943, v. 7, p. 81-96.

DESCRIPTORS: *Projectiles, Stability, Rotation, Ve-
locity, *Ballistics, Projectile trajectories, Complex
variables, Euler's angles, Partial differential equations,
Differential equations.

(Engineering--Ordnance, TT, v. 11, no. 4)

TT-63-20579

I. Chetaev, N. G.

Office of Technical Services

On the Stability of the Visco-Plastic Flow in a Strip
and in a Cylindrical Bar, by A. Yu. Izhinskiy,
30 ~~107-130~~

RUSSIAN, per, Prikl Matemat i Mekhanika, Vol VII, No 2,
1943, pp 107-130

Sci Tr Center
RT-1080

Scientific - Physics

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Trish Photo i Mekh, Vol 7, 1943.

"Elastic-Plastic State of Stress of a Tube
Under the Action of Uniform Internal
and External Pressure"

Done in S. B. by ACSIL (Admiralty)

49/4663

Y 21552T

See Index Aero, May 1950, p 62

Trish Math & Mech, Vol 7, No 3, p 155, 1943.

"The Approximate Solution of Certain Problems of Stability of a Thin-Walled Conic Shell with a Circular Cross-Section"

Done in S.B. by ACSIC (Admiralty)

49/4670

P 212557

See Index Aero, May 1950, p 63

The Determination of Latent Roots and Invariant
Manifolds of Matrices by Means of Iterations,
by K. A. Semendyaev

RUSSIAN, per, Prik Mat i Mekh, Vol VII, 1943,
pp 293-322.

Av @ Brookhaven Nat Lab

Scientific - Mathematics

Rolling and Drawing at High Speeds, by A. Yu.
Tikhonovskiy, 9 pp. UNCLASSIFIED

RUSSEIN, per, Prikl Matemat i Mekhanika,
vol VII, No 3, 1943, pp 226-230.

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Scientific - Physics

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Some Problems in the Theory of Elastic Deformations,
by A. A. Il'yushin, 52 pp. ~~CONFIDENTIAL~~

RUSSIAN, per, Prikl Matemat i Mekhanika, Vol VII,
no 4, 1943, pp 245-272

Sci Tr Center
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Scientific - Physics

SP/193/535

AI 5-6-1943-535

On Plasticity

15,381

Novozhilov, V. and Finkel'stein, R.
ON THE ERROR OF THE KIRCHHOFF HYPOTHESIS
IN SHELL THEORY (O Pogreshnosti Gipotez Kirkhgofa
v Teorii Obolochek). [1962] [31]p. 7 refs.
Order from OTS or SLA \$3.60 62-16104

Trans. of Prikladnaya Matematika i Mekhanika (USSR)
1943, v. 7, no. 5, p. 331-340.

DESCRIPTORS: Elastic shells, Theory, Errors,
Elasticity, Deformation, Stresses, Transformations
(Mathematical), Differential equations, Mechanics.

For the purpose of elucidating the inaccuracies men-
tioned in the title of this paper the authors develop a
theory of shells independent of the Kirchhoff and Love
hypothesis. This theory generalizes and extends the
earlier treatments published by Basset and partly by
Kilichevsky. The results obtained lead to the conclu-
(Mechanics, IT, v. 8, no. 5) (over)

62-16104

- I. Title: Kirchhoff Hypothesis
- I. Novozhilov, V.
- II. Finkel'stein, R.

Office of Technical Services

The Pulling Force during Rolling, by K. E.
Shevchenko, 9 pp UNCLASSIFIED

RUSSIAN, per, Prikladnaya Matematika i Mekhanika, Vol VII,
No 5, 1943, pp 389-392.

Sci Tr Center
RT 1119

Scientific - Physics

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Equilibrium of an Elastic Symmetrically
Loaded Spherical Shell, by A. I. Luy'ye.
RUSSIAN, per, Priklad Matemat i Mekh, Vol VII,
1943, pp 393-404.
UCRL-Tr-1242(L)

Sci - ES
Oct 65

288,678

Stability of Visco-Plastic Flow of a Circular Slab,
by A. V. Izhinskii, 14 pp UNCLASSIFIED

RUSSIAN, per, Prikl Matemat i Mekhanika, Vol VII,
No 6, 1943, pp 405-412.

15,382
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Scientific - Physics

A Direct Method of Computing the Vector
and Tensor Derivatives in Orthogonal
Systems of Curvilinear Co-ordinates,
by D. I. Kutilin.

RUSSIAN, per, Prikl. Matem. i Mekhan.,
1943, Vol 7, pp 431-438.

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"The Stability of Plates and Shells Stressed
Beyond The Elastic Limit"

Done in S B by ACSIL (Admiralty)

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^{Index}
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Prk Matz i Mekh, Vol 5, 1944

"Elastic-Plastic Bending of Circular
Plates and Rings"

Done in S. S. by AC 512 (Admiralty)

49/7660

P 21549T

See Index Aero, May 1950, p 62

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Vol 8

(1944)

Propagation of Plane Impact Wave due to Ordinary
Explosion Near a Rigid Wall

17. Unit

Dr. Hoesen - M.D.
(Telecom - Gen. 1)

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Vol 8

(1988)

Influence of Point of Ignition on Parameters of
Air Pressure Wave Spreading Due to Detonation
of Gas Mixtures
H. H. Galka

Dr. Scav. H. H. Galka
(Leningrad, Nov 51)

On the Application of the General Theory of
Elasticity to Thin Shells, by A. L. GOL'DENVEISER
MOSEY.2. 1p. Gol'denweiser

RUSSIAN, per, Prikl Mat i Mekh, Vol VIII, No 1,
1944, pp 3-14.

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Scientific - Physics

Aug 55 CTS/DEX

Approximate Theory of Elastic-Plastic Deformations
of Shells With Axial Symmetry, by A. A. Il'iushin,
20 pp.

RUSSIAN, per, Prik Mat i Mekh, Vol. VIII, No 1, 1944,
pp 15-24.

Sci Trans Center RT-556

Scientific - ~~MODERN PHYSICS~~ Physics
CTS/DET

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Motion of a Viscous Fluid in a Longitudinally
Vibrating Pipe, by G. V. Aronovich, 10 pp.

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1944, pp 79-83.

AMC F-78-7480

Sci Tr Center RT-942

Scientific - Physics, math

CIA 686008

Nov 51 CTS

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The Wave Resistance of Bodies in Supersonic
Flow, by S. Z. Belen'kiy, 9 pp.

RUSSIAN, bimo per, Prik Mat i Mekh, Vol VIII,
No 1, 1944, pp 84-87.

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Sep 56 CTB/dex

39, 123

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V. L. G. S. S.

Computation of Thin Walled
Prismatic Shells

(NACA Tech memo (1234) 511 pp) June 1949

Basic Differential Equations in General Theory
of Elastic Shells, by V. S. Vlasov, 29 pp.

RUSSIAN, Prilad Matemat i Mech, Vol 8, 1944,
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NAC for Aero. Techn Memo 1241

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Sci- Aeronautics, Mathematics

Discontinuous Flow Past a Lattice of Broken Profiles, by
N. V. ~~Lambin~~ Lambin, 28 pp.

RUSSIAN, bino per, Frik Matem i Mekh, Vol VIII, 1944,
pp 187 - 200.

AMC F-TS-7481

Sci - Physics

Feb 52 CTS

I. G. Malkin

On stability under constant acting disturbances,

8 pp

RUSSIAN per, Prikladnaya Matematika i Mekhanika, 1944
Vol 8, pp 241-245

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Pink tract + index, No 9, 1945 P 13-66

"The Theory of the Circular
Wing"

N.E. Kochin

Done in G.B.

TPA 3/TIB Translation (3685) 71/4.

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20 Chester, T. L. L. L.
London, N.W. 1

The Problem of Plasticity With Axial Symmetry and
Brinell's Test, by A. Yu. Ishlinskiy, 37 pp.

RUSSIAN, per, Prikl Matemat i Mekh, Vol VIII, No 3,
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Sci Tr: Center RT-1214.

Scientific - Physics

Jul 51 -

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Translational Motion of Bodies Under the Free
Surface of a Heavy Fluid of Finite Depth, by
M. D. Khaskind, 20 pp.

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